## Amendments to the Claims

Claim 1 (Original): An apparatus for improving a stop band response of a surface acoustic wave device comprising:

a surface acoustic wave device having an output and further having external electromagnetic coupling and acoustic coupling; and

a cancellation network coupled to the surface acoustic wave device to reduce external electromagnetic feed through;

wherein the cancellation network reduces the amount of external electromagnetic feed through at the output of the surface acoustic wave device.

Claim 2 (Original): The apparatus of claim 1 wherein the cancellation network is selected from a group comprising at least a passive network and an adjustable network.

Claim 3 (Original): The apparatus of claim 1 wherein surface acoustic wave device is a surface acoustic wave filter.

Claim 4 (Original): The apparatus of claim 1 further comprising:

an input matching circuit coupled to the surface acoustic wave device; and

an output matching circuit coupled to the surface acoustic wave device.

Claim 5 (Original): The apparatus of claim 4 wherein the cancellation network cancels electromagnetic feed through in the input matching circuit and the output matching circuit.

Claim 6 (Original): The apparatus of claim 1 wherein the cancellation network reduces external electromagnetic feed through at the output of the surface acoustic wave device by at least 2dB.

Claim 7 (Original): The apparatus of claim 6 wherein the cancellation network further reduces internal electromagnetic feed through at the output of the surface acoustic wave device.

Claim 8 (Original): A method for canceling electromagnetic feed through comprising the steps of:

providing a surface acoustic wave device having external electromagnetic feed through; and

coupling a cancellation network to the surface acoustic wave device; and

reducing the external electromagnetic feed through at an output of the surface acoustic wave device.

Claim 9 (Original): A method for canceling electromagnetic feed through of claim 8 further comprising the step of canceling substantially all of the external electromagnetic feed through.

Claim 10 (Original): A method for canceling electromagnetic feed through of claim 8 further comprising the

step of reducing internal electromagnetic feed through at the output of the surface acoustic wave device.

Claim 11 (Original): A method for canceling electromagnetic feed through of claim 10 further comprising the step of canceling substantially all of the internal electromagnetic feed through and the external electromagnetic feed through at the output of the surface acoustic wave device.

Claim 12 (Original): A method for canceling electromagnetic feed through of claim 8 further comprising the step of adjusting the cancellation network to increase the reduction of the electromagnetic feed through in a stop band of the surface acoustic wave device.

Claim 13 (Original): A method for canceling electromagnetic feed through of claim 12 further comprising the step of measuring the output of the surface acoustic wave device during the step of adjusting the cancellation network.

Claim 14 (Original): A method for canceling electromagnetic feed through of claim 8 wherein the cancellation network is a passive network.

Claim 15 (Original): A method for canceling electromagnetic feed through of claim 8 wherein the cancellation network is an adjustable network.

Claim 16 (Original): A method for canceling electromagnetic feed through comprising the steps of:

providing a surface acoustic wave device having external electromagnetic feed through; and

coupling an adjustable cancellation network to the surface acoustic wave device; and

adjusting the cancellation network to reduce the external electromagnetic feed through in a stop band of the surface acoustic wave device.

Claim 17 (Original): A method for canceling electromagnetic feed through of claim 16 further comprising the step of measuring a transfer function of the cancellation network.

Claim 18 (Original): A method for canceling electromagnetic feed through of claim 17 further comprising the step of synthesizing a passive cancellation network.

Claim 19 (Original): A method for canceling electromagnetic feed through of claim 17 further comprising the step of coupling a passive cancellation network to the surface acoustic wave device.

Claim 20 (Original): A method for canceling electromagnetic feed through of claim 19 wherein the passive cancellation network has a transfer function that is substantially similar to the measured transfer function of the adjustable cancellation network.

Claim 21 (Original): A method for canceling electromagnetic feed through of claim 16 further comprising the step of reducing internal electromagnetic feed through in the stop band of the surface acoustic wave device.

Claim 22 (Original): A method for canceling electromagnetic feed through of claim 16 further comprising the step of canceling external electromagnetic feed through in the stop band of the surface acoustic wave device.

Claim 23 (Original): A method for canceling electromagnetic feed through of claim 16 wherein the surface acoustic wave device is a surface acoustic wave filter.